

LISTING OF THE CLAIMS

This listing of the claims replaces all prior claim versions and listings in the application:

1.-11. (Canceled)

12. (New) A short-pulse laser arrangement comprising:

a resonator comprising resonator components including a laser crystal, a plurality of mirrors including a pump beam coupling-in mirror, a laser beam out-coupling mirror and a multiple reflection telescope for enlarging the resonator length, a first set of the resonator components having a positive dispersion;

said plurality of mirrors including dispersive mirrors with a negative dispersion for compensating in part the positive dispersion of the first set of the resonator components;

said resonator in operation having a positive averaged dispersion over an operating wavelength range,

wherein the entire negative dispersion of the resonator is determined only by the dispersive mirrors with the negative dispersion.

13. (New) The short-pulse laser arrangement of claim 12, wherein the positive averaged dispersion of the resonator is in a range of 0 and 100 fs².

14. (New) The short-pulse laser arrangement of claim 12, wherein the positive averaged dispersion is in a range of 0 and 50 fs².

15. (New) The short-pulse laser arrangement of any one of claims 12 to 14, wherein the multiple reflection telescope comprises at least one of the dispersive mirrors with the negative dispersion.

16. (New) The short-pulse laser arrangement of claim 15, wherein all the mirrors of the resonator are the dispersive mirrors with the negative dispersion.

17. (New) The short-pulse laser arrangement of any one of claims 12 to 14, the resonator comprising a pair of glass wedges with positive dispersion configured to provide a supplementary dispersion fine adjustment.

18. (New) The short-pulse laser arrangement of any one of claims 12 to 14, wherein the laser arrangement is configured to provide passive mode-locking.

19. (New) The short-pulse laser arrangement of claim 18, wherein a Kerr-lens mode-locking principle is used for the passive mode-locking.

20. (New) The short-pulse laser arrangement of claim 18, comprising a saturable absorber positioned and configured to perform the passive mode-locking.